

CLAIMS

WHAT IS CLAIMED IS:

1. A method of providing a wireless communication service to an international roaming mobile station, the method

5 comprising the steps of:

a) storing information as to whether the international roaming mobile station subscribes to an international roaming service in a subscriber profile of the mobile station;

b) storing mobile switching center (MSC) identifications
10 (MSC IDs) in a database of a home location register(HLR);

c) determining whether a registration notification (REGNOT) message is from an MSC of a home system based on the MSC IDs stored in the database when the REGNOT message is inputted from the MSC to the HLR; and

d) sending information as to whether the international roaming mobile station subscribes to the international roaming service to the MSC based on the subscriber information when the RENOT message is not from the home system.
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2. The method of claim 1, further comprising the steps of:

e) storing an international telephone service provider number for the international roaming mobile station in the HLR; and

5 f) sending the international telephone service number together with a routing number of the international roaming mobile station when a location request message is received at the HLR.

3. A method of providing a wireless communication service to an international roaming mobile station, the method comprising the steps of:

a) registering the international roaming mobile station
5 at a mobile switching center (MSC);

b) determining whether a routing request message for the international roaming mobile station is for an international call when the routing request message is received at the MSC; and

10 c) generating an international routing number of the international roaming mobile station when the routing request message is for an international call and sending the international routing number.

4. The method of claim 3, further comprising the steps of:

d) assigning a virtual origination number to the international roaming mobile station in the MSC when a call origination request from the international roaming mobile station is received at the MSC; and

e) sending a call connect message having the virtual origination number instead of a calling part number.

5. The method of claim 3, wherein said international routing number includes a temporary local directory number, a country code, and a system operator code.